

**ACP Blueprint  
Grade 4 Mathematics  
Semester 1, 2015–2016**

Test Code	Year	Form
1041	15	3
Last Revision Date: 04/20/2015		

SE Descriptions	Reporting Category	TEKS/SE	R or S	No. of Items	% of Test
<b>1. Number and operations.</b> Represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals.	1	4.2B	R	2	8%
<b>2. Number and operations.</b> Compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols $>$ , $<$ , or $=$ .	1	4.2C	S	1	4%
<b>3. Number and operations.</b> Represent decimals, including tenths and hundredths, using concrete and visual models and money.	1	4.2E	S	1	4%
<b>4. Number and operations.</b> Relate decimals to fractions that name tenths and hundredths.	1	4.2G	R	2	8%
<b>5. Number and operations.</b> Determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line.	1	4.2H	S	1	4%
<b>6. Number and operations.</b> Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.	2	4.4A	R	2	8%
<b>7. Number and operations.</b> Represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15.	2	4.4C	S	1	4%
<b>8. Number and operations.</b> Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties.	2	4.4D	S	1	4%
<b>9. Number and operations.</b> Represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations.	2	4.4E	S	1	4%
<b>10. Number and operations.</b> Use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor.	2	4.4F	S	2	8%
<b>11. Number and operations.</b> Round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole numbers.	2	4.4G	S	1	4%
<b>12. Number and operations.</b> Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.	2	4.4H	R	2	8%

SE Descriptions	Reporting Category	TEKS/SE	R or S	No. of Items	% of Test
<b>13. Number and operations.</b> Represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.	2	4.5A	R	2	8%
<b>14. Algebraic reasoning.</b> Represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence.	2	4.5B	R	2	8%
<b>15. Algebraic reasoning.</b> Solve problems related to perimeter and area of rectangles where dimensions are whole numbers.	3	4.5D	R	2	8%
<b>16. Personal financial literacy.</b> Calculate profit in a given situation.	4	4.10B	S	1	4%
	<b>Total</b>		<b>R</b>	14	58%
			<b>S</b>	10	42%
			<b>All</b>	<b>24</b>	

**Note:** **R** = Readiness Standard, **S** = Supporting Standard

A copy of the Grade 4 Mathematics STAAR Reference Chart is printed in each booklet.

This assessment is consumable.

Calculators are **NOT** permitted on this assessment.

Percentages are rounded to the nearest whole number.

**Reporting Categories:**

1. Numerical Representations and Relationships
2. Computations and Algebraic Relationships
3. Geometry and Measurement
4. Data Analysis and Personal Finance

### Mathematical Process Standards

Description:	SE
Apply mathematics to problems arising in everyday life, society, and the workplace.	1A
Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.	1B
Select tools, including real objects, manipulative, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems.	1C
Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.	1D
Create and use representations to organize, record, and communicate mathematical ideas.	1E
Analyze mathematical relationships to connect and communicate mathematical ideas.	1F
Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	1G